

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
19 February 2004 (19.02.2004)

PCT

(10) International Publication Number
WO 2004/014374 A1

(51) International Patent Classification⁷: A61K 31/437,
A61P 25/28, 35/00, C07D 471/04

MILAN (IT). VULPETTI, Anna [IT/IT]; Via Volturno 80
- Portici 3, I-20047 BRUGHERIO (IT).

(21) International Application Number:
PCT/EP2003/007000

(22) International Filing Date: 1 July 2003 (01.07.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/398,122 25 July 2002 (25.07.2002) US

(71) Applicant (for all designated States except US): PHAR-
MACIA ITALIA S.P.A. [IT/IT]; Via Robert Koch 1.2,
I-20152 MILAN (IT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): VILLA, Manuela
[IT/IT]; Via San Bernardino 12, I-22040 LURAGO
D'ERBA (Como) (IT). ABRATE, Francesca [IT/IT]; Via
L. Settala 45, I-20124 MILAN (IT). FANCELLI, Daniele
[IT/IT]; Via Montecuccoli 8, I-20147 MILAN (IT).
VARASI, Mario [IT/IT]; Via Moncucco 24/a, I-20142

(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

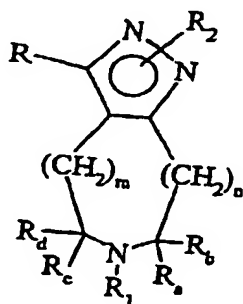
(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: BICYCLO-PYRAZOLES ACTIVE AS KINASE INHIBITORS, PROCESS FOR THEIR PREPARATION AND PHAR-
MACEUTICAL COMPOSITIONS COMPRISING THEM



(57) Abstract: The present invention provides a method for treating diseases caused by and/or associated with an altered protein kinase activity which comprises administering to a mammal in need thereof an effective amount of a pyrazole-tetrahydro pyridine derivative. The invention also provides specific pyrazole-tetrahydro pyridines, a library comprising at least two of them, a process for their preparation and the pharmaceutical compositions containing them, which are useful in the treatment of diseases caused by and/or associated with an altered protein kinase activity such as cancer, cell proliferative disorders, viral infections, autoimmune diseases and neurodegenerative disorders.